## REMARKS

Applicant has reviewed and considered the Office Action mailed on November 26, 2007, and the references cited therewith.

Claims 6, 9, 17, 20-24, 27, and 28 are amended, claims 1-5 are canceled, and no claims are added; as a result, claims 6-30 are now pending in this application.

### *35 USC § 102 Rejection of the Claims*

Claims 1-2, 9-13, 17-20, 23-24 and 27 were rejected under 35 USC § 102(e) as being anticipated by Gonzalez et al. (US Publication 20040250046). Claims 1 and 2 have been canceled, rendering this rejection moot with respect to those claims. Independent claims 9, 17, 20, and 27 and dependent claims 14-16, 21-24, and 28 have been amended. Applicants believe this rejection has been overcome by amendment. The amended claims are discussed further below under the heading "Amended Claims."

### *35 USC § 103 Rejection of the Claims*

Claims 3-5 were rejected under 35 USC § 103(a) as being unpatentable over Gonzalez et al. (US Publication 20040250046), in view of Reed et al. (US Publication 20040090964). Claims 3-5 have been amended, rendering this rejection moot.

Claims 6-8, 15 and 30 were rejected under 35 USC § 103(a) as being unpatentable over Gonzalez et al. (US Publication 20040250046), in view of Khan et al. (US Publication 20030105799). Applicants traverse this rejection with respect to claims 6-8. Applicants respectfully submit that a *prima facie* case of obviousness has not been presented because the combination of references does not disclose, teach, or suggest the subject matter of claim 6. Claim 6 has been amended to include all the limitations of the base claim and any intervening claims.

Claim 6 recites "configuring at least one programmable element to demultiplex the data stream into overlapping segments." The examiner has cited paragraph 44 of Khan which describes a pipelined processor architecture that allows multiple processor instructions to be overlapped in execution. Applicants respectfully submit that Khan does not disclose, teach, or suggest demultiplexing *data streams* into overlapping segments as recited in claim 6.

Claims 7 and 8 depend from claim 6, and are believed to be in condition for allowance at least by virtue of dependency.

Claim 15 depends from claim 9, and claim 30 depends from claim 27, both of which are believed to be in condition for allowance. See the section below entitled "Amended Claims."

Claims 14, 16 and 29 were rejected under 35 USC § 103(a) as being unpatentable over Gonzalez et al. (US Publication 20040250046), in view of Agee et al. (US Publication 20040095907); and claims 25 and 26 were rejected under 35 USC § 103(a) as being unpatentable over Gonzalez et al. (US Publication 20040250046), in view of Snyder (US Publication 20050138323). Claims 14 and 16 depend from claim 9; claims 25 and 26 depend from claim 20; and claim 29 depends from claim 27. Claims 9, 20, and 27 are believed to be in condition for allowance. See the section below entitled "Amended Claims."

## *Amended Claims*

Independent claims 9, 17, 20, and 27 have been amended to clearly recite a plurality of overlapping data streams. As discussed above with reference to claim 6, applicants respectfully submit that the cited references do not disclose, teach, or suggest demultiplexing a data stream into a plurality of overlapping sub-streams. Accordingly, applicants believe independent claims 9, 17, 20, and 27 are in condition for allowance. Claims 10-16, 18, 19, 21-26, and 28-30 are believed to be in condition for allowance at least by virtue of dependency.

**AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111**
Serial Number: 10/813,226
Filing Date: March 30, 2004
Title: HETEROGENEOUS BUILDING BLOCK SCALABILITY

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*Conclusion*

Applicant respectfully submits that the claims are in condition for allowance and notification to that effect is earnestly requested. The Examiner is invited to telephone Applicant's attorney (952-473-8800) to facilitate prosecution of this application.

If necessary, please charge any additional fees or credit overpayment to Deposit Account No. 50-4238

Respectfully submitted,

HOOMAN HONARY ET AL.

By their Representatives,

**CUSTOMER NUMBER: 45445**
952-473-8800

Date _____3/26/08_____        By ____/Dana B. LeMoine/_____
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